

Libby Asbestos Project

Project Status Briefing

November 13-15, 2007



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John A. Volpe National Transportation
Systems Center



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1074093



Meeting Agenda

**Tuesday November 13, 1:00 pm through
Wednesday November 14, noon**

- 2007 in review (Project organization & accomplishments by WAF)
- Laboratory capacity analysis
- Cost impact of removing visible vermiculite
- ERS position activity and performance



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Meeting Agenda (continued)

Feds-only Session – Wednesday November 13, 1:00 pm – 5:00 pm

- Budget/Spending review
- Contracting status and strategy
 - Status of existing contracts
 - Planned actions for 2008
 - Construction contracting options:
 - Design-build contracting w/A&E firms
 - Other options
 - Staff expansion to cover requirements of non-OU4 work



Meeting Agenda (continued)

Thursday November 14, 8:00 am – 5:00 pm

- Planning for 2008, setting goals and priorities
- Process improvements planned for 2008
 - Health & Safety auditing
 - Oversight changes
 - GFE tracking and management
 - Program participation risk management



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Planning for 2008



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WAF 1: Database Support

- 2008 Planned and Potential Future Work
 - Ongoing work
 - QualityNet implementation
 - E911
 - New report in the Standard Report application
 - FOCIS Phase II
 - Remediation Status Query/ Property Status Query



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WAF 2: Community Involvement Support

- 2008 Planned and Potential Work
 - Maintain and Staff Info. Center
 - CAG Support
 - Public Meeting Support
 - Communication Support
 - Ask EPA, Superfund and You, CAG & Public Meeting Notices, Q&A's, radio and local press
 - Troy Removals
 - Mine Investigation
 - 2008 CI Plan to present to EPA



WAF 2: OU4 (PDI)

Assumed Goals

- Support 2008 Removals – Q2
 - 10 PDIs
- Complete T09 Contract: Q2-Q3
 - 31 PDIs
- Flower Creek PDI: Q3-Q4

*Assumptions

- Cleanup goal remains 160 properties
- Under current removal/design protocol



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WAF 2: OU4 (PDIs)

Other Potential Goals

- Support 2009 Removals: Q3 – Q4
 - 204 PDIs & Field Reviews
- Additional Troy PDIs

*Assumptions

- Cleanup goal remains 160 properties
- Under current removal/design protocol



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WAF 2: OU4 (Design)

Assumed Goals

- Support 2008 Removals: Q1-Q3
 - 200 Designs
- Cabinet View Country Club: Q1-Q2
 - Removal/restoration designs

Date	Projected Designs (month)	Actual Designs (month)
Sep-07	0	2
Oct-07	20	20
Nov-07	30	
Dec-07	20	
Jan-08	15	
Feb-08	25	
Mar-08	30	
Apr-08	30	
May-08	20	
Jun-08	10	
Total	200*	



WAF 2: OU4 (Design)

Other Potential Goals

- Support 2009 Removals
 - 50 Designs – 2008 - Q4
 - 150 Designs – 2009: Q1-Q3



WAF 2: OU4 (Removals)

Assumed Goals

- 160 Removals: Q3 - Q4
 - 9 Troy properties
 - 151 Libby properties
- Continue ERS program
- Revise Response Action Work Plan Sampling and Analysis Plan (RAWP SAP)
- Revise Landfill Operations Plan and Mine Operations Plan



WAF 3: OU1 (Export Plant)

Assumed Goals

- RI – Q2
- Risk Assessment – Q2
- FS – Q2
- RRB – April?? (is it needed with an no action FS)
- Proposed Plan – Q3
- ROD – September

*Assumptions

- ABS data available to support RA
- No RRB
- No action FS

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WAF 3: OU2 (Screening Plant)

Assumed Goals

- Continue Ambient Air sampling: Q1-Q3
- Conceptual site model – Q1
- Finalize data summary report – Q2
- Data gap analysis – Q2
- SAP – Q3
- Sampling – Q3

*Assumptions

- Limited sampling for data gap (bluffs)
- No further sampling at Screening Plant or Flyway
- Ambient Air sampling to end 6/2008
- RI to come in first quarter 2009

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WAF 3: OU4 (Investigations)

Assumed Goals

- Continue Ambient Air sampling: Q1-Q4
 - 7 Location
 - 1 Background
 - 5 Days on, 15 days off
- Continue ABS: Q1-Q3
 - Events 2 and 3: interior only
 - Event 4: interior and exterior
- Finalize site wide QAPP

*Assumptions

- None



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WAF 3: OU4 (Investigations)

Other Potential Goals

■ Exposure pathway evaluation

- Outdoor air near fire location
- Air in attic/crawl space with vermiculite (phase II)
- Indoor air near breached walls
- Outdoor air near highways and rail lines
- Dust in air of vehicles
- Ash from burned wood
- Inhalation from dust in air from disturbances of roofing or other outdoor surface

*Assumptions

- None



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WAF 3: OU4 (Investigations)

Other Potential Goals (cont.)

- Contaminate Screening Study
 - 400 Properties to complete OU4
- Visible Vermiculite Inspection Revisits
 - ~3,200 Properties
- Creeks/Rivers
 - Fisher River
 - Granite, Pipe, Libby, Parmenter, and Calahan
- Tox Studies

*Assumptions

- None



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WAF 3: OU5 (Stimson)

Assumed Goals

- Complete indoor air sampling – Q1
 - ABS and Aggressive
- Analyze wood chip/waste bark – Q1
- Complete landfarm soil sampling – Q3
- RI – Q4



WAF 3: OU6 (BNSF)

Assumed Goals

- Continue AA – Q1 – Q3
- CSM – Q1
- Data GAP – Q2
- SAP – Q3
- Sampling – Q3

*Assumptions

- BNSF writes SAP
- BNSF collects samples with CDM oversight



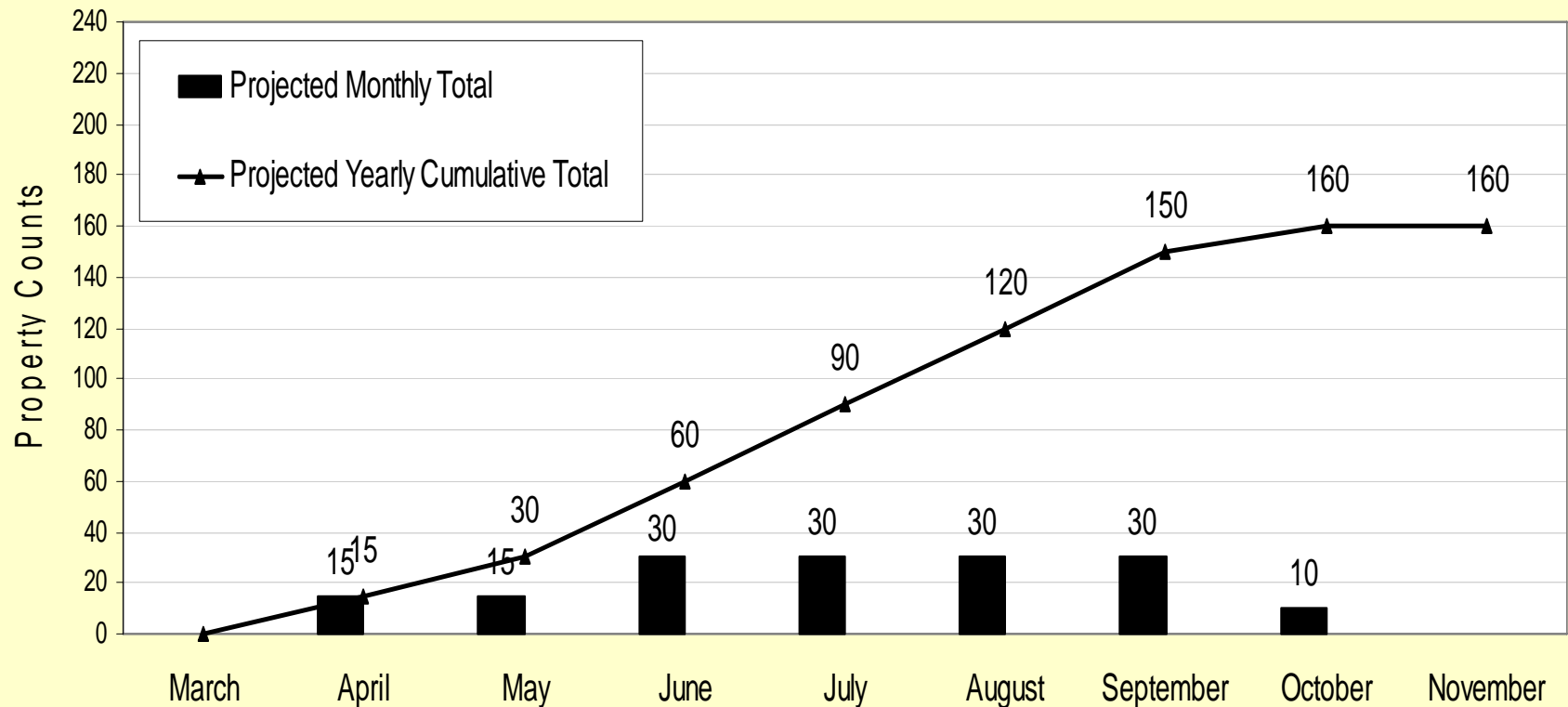
WAF 3: General Investigative

- Ambient Air Program
- Lab Management & Analytical Method Development & Modification
- Participation in TAU Calls & Development of Tech Memos & Studies
- CSF Support
 - From 2007 - Enter Backlog of Archive Soil from EMSL Libby
 - From 2007 - Process & Enter Wood Chip Samples (~184)
 - 2008 Samples



WAF 4: Cleanup – 2008 Goals

2008 Cleanups



WAF 7: Troy Support

- Major Support Activities Included
 - Analysis of Dust Samples
 - Lab Mentoring (PLM & TEM)
 - Additional TBD
 - Evaluation of Troy Properties for Cleanup?



WAF 8: Toxicology Studies

■ 2008 Accomplishments To-Date

- Initiated ABS Indoor Event 2 (as of Nov 3rd 34 of 80 prop. completed)
- Analysis of ABS Event 1 (to be completed Dec 2007)
- Planning regarding procurement efforts to support toxicology projects
- Sources sought synopsis developed, finalized, & posted (Nov 7, 2007)
- SRC Risk Assessment support

■ Planned for 2008

- Complete ABS Event 2 & 3 (sampling & analysis)
- Complete procurement & preparation of White Paper on Fiber-like Structures
- Support tissue processing and method-development (goal of contract in place by Feb/March 2008)
- Analyze samples from the toxicology projects (Winter 2007-Spring 2008)

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WAF 9: OU3 (Mine)

Assumed Goals

- None



2008 Summary

Q1	Q2	Q3	Q4
OU1 RI	OU1 FS	OU1 Proposed Plan	OU1 ROD
OU2 CSM	OU1 RA	OU2 SAP	OU2 AA
OU2 DSR	OU2 DSR	OU2 Sampling	OU3 Mine Ops OS
OU2 AA	OU2 Data Gap	OU2 AA	OU3 Quarterly Survey
OU3 Rewrite Mine Ops Plan	OU3 Review SAP	OU3 Sample Oversight	OU4 AA
OU4 ERS Support	OU3 Quarterly Survey	OU3 Mine Ops	OU4 Removal OS
OU4 AA	OU4 PDI	OU3 Quarterly Survey	OU4 PDI for '09
OU4 ABS	OU4 ERS Support	OU4 AA	OU4 CSS
OU4 CVCC Design	OU4 AA	OU4 ABS	OU4 Creek Investigation
OU5 Indoor ABS	OU4 ABS	OU4 Removal OS	OU5 RI
OU5 Analysis of Wood Chip and Waste Bark	OU6 DSR	OU4 PDIs for '08	OU6 AA
OU6 CSM	OU6 Data Gap	OU4 CSS	OU7 Sample Analysis
OU6 AA	OU6 AA	OU4 ERS Support	OU7 PDI at Priority Properties
OU7 Sample Analysis	OU7 ERS Support	OU5 Landfarm Sampling	OU7 Removal OS
OU7 ERS Support		OU6 SAP Review	OU7 ERS Support
		OU6 AA	
		OU6 Sampling OS	
		OU7 PDI at Priority Properties	
		OU7 Removal and OS	
		OU7 ERS Support	

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GFE Tracking and Management

■ Non-IT GFE

Landfill Personal Decontamination Trailer

Sprung Instant Structure (Landfill Tent)

10 Roll-off Vacuum Containers

20 CY roll-off bin w/flip lid

55 Two-way Radios, Chargers, and Repeater

Sub-Soiler Decompactor

Weather Monitor II and Two Mounts

Mine Amphitheater Personal Decontamination Trailer

Mine Amphitheater Water Filtration, Pumping, and Distribution Systems



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Program Participation and Risk Management

- Drop outs
 - Cleanup program
 - ABS



Standardized Design Approach



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Scenarios Used

- **Current:** As currently conducted with existing triggers
- **Scenario 1:** Remove soil 20 feet out around house to a depth of 12 inches
- **Scenario 2:** Remove soil 30 feet out around house to a depth of 12 inches
- **Scenario 3:** Remove all land use designated as common use area (CUA) and specific use area (SUA) on property



Two Examples Used

- **Example 1 (Average):** An average property based upon this seasons PDIs with a total of 499 cy of soil being removed.
- **Example 2 (Large):** A large property with 1,166 cy of soil being removed that is expected to be found more frequently in the future.



Example 1

- See handouts



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Summary Stats for Example 1

SCENARIO	AREA (SF)	VOLUME (CY)	VOLUME % CHANGE
Current	12,826	499	-----
Scenario 1	6,189	230	(54%)
Scenario 2	10,431	386	(23%)
Scenario 3	27,118	1,004	101%

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Example 2

- See handouts



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Summary Stats for Example 2

SCENARIO	AREA (SF)	VOLUME (CY)	VOLUME % CHANGE
Current	30,229	1,166	-----
Scenario 1	5,631	209	(82%)
Scenario 2	9,327	345	(70%)
Scenario 3	16,451	609	(48%)

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Design Volume Distribution 2007/08

Submittals

Size Category (cy)	Frequency	Volume (cy)	% of Total Properties	% of Total Volume
0 - 100	41	2,268	22%	3%
101 - 200	28	4,125	15%	6%
201 - 300	40	10,021	22%	15%
301 - 400	20	7,059	11%	10%
401 - 500	8	3,525	4%	5%
501 - 600	14	7,799	8%	11%
601 - 700	9	5,675	5%	8%
701 - 800	6	4,546	3%	7%
801 - 900	5	4,206	3%	6%
901 - 1,000	4	3,850	2%	6%
1,001 - 1,500	8	9,264	4%	14%
1,501 - 2,000	2	3,407	1%	5%
>2,000	1	2,270	1%	3%
TOTAL	186	68,015		

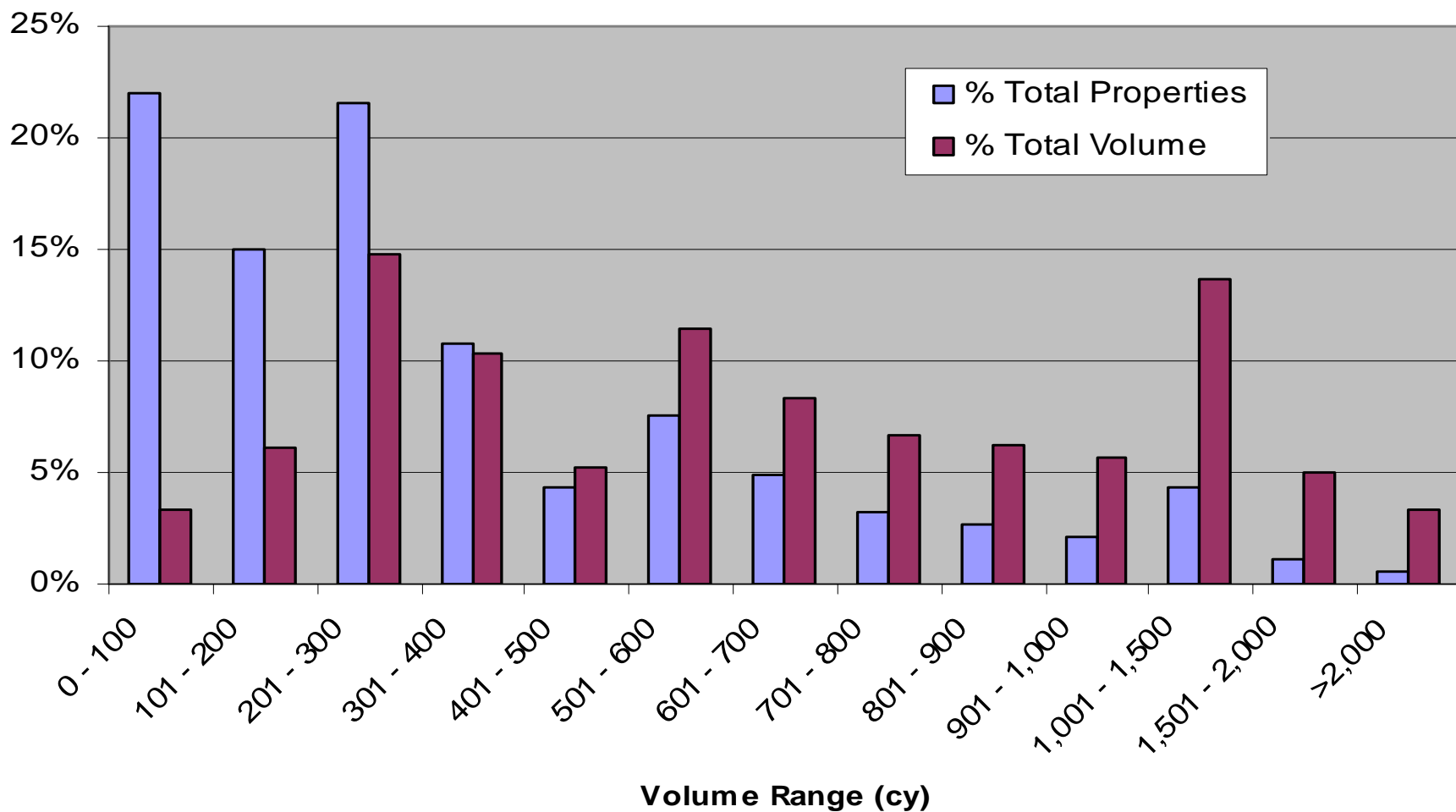


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Conclusions

- 34% of removal volume is from the largest 11% of the properties
- Different removal scenarios for larger properties may help reduce cost and still reduce risk
- A threshold or trigger size may exist for which larger properties can follow a different removal criteria to maximize risk reduction to volume removed

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